

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. GA-0267-US03	SERIAL NO. 10/788,787
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT ASBRINK et al.	
(Use several sheets if necessary)		FILING DATE 2/27/04	GROUP

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
LD		2001/0013370	8/16/01	Loo			
		2001/0031222	10/18/01	Schnell et al			
		2002/0062098	5/23/02	Cavicchioli et al			
		1441088	1/2/1923	Hofstetter			
		2352629	7/4/1944	Griswold			
		2709785	5/31/1955	Fielden			
		2865402	12/23/1958	Miller			
		3048192	8/7/62	Murphy			
		3080887	3/12/1963	Brandenberg			
		3157201	11/17/64	Littmann			
		3324720	6/13/1967	Sutherland			
		3396331	8/6/1968	Sperry III			
		3404336	10/1/1968	Rosenthal			
		3450984	6/17/1969	Holmes			
		3482575	12/9/1969	Claff et al.			
		3491592	1/27/1970	Evers et al.			
		3585995	6/22/1971	Perkins et al.			
		3586049	6/22/71	Adamson			
		3619423	11/9/1971	Galletti et al.			
		3626938	12/14/1971	Versaci			
		3678960	7/25/72	Leibinsohn			
		3722276	3/27/1973	Chandler et al.			
		3733965	5/22/1973	Braun			
		3834372	9/10/74	Turney			
		3867688	2/18/1975	Koski			
		3957082	5/18/76	Fuson et al			
LD		3980946	9/14/1976	Fleury			

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LD		3985134	10/12/1976	Lissot et al.			
		3987788	10/26/1976	Ennil			
		4037622	7/26/1977	Osheroff et al.			
		4081372	3/28/1978	Atkin et al.			
		4098275	7/4/1978	Consalvo			
		4113614	9/12/1978	Rollo et al.			
		4136563	1/30/1979	Mueller et al.			
		4138639	2/6/1979	Hutchins			
		4177677	12/11/1979	Ruzicka et al.			
		4181610	1/1/1980	Shintani et al			
		4256135	3/17/1981	Hannah			
		4361049	11/30/1982	Volgyesi			
		4446871	5/8/1984	Innura			
		4464164	8/7/1984	Trottner et al.			
		4490134	12/25/1984	Trottner			
		4490135	12/25/1984	Trottner			
		4508622	4/2/1985	Polaschegg et al.			
		4593717	6/10/86	Levasseur			
		4650458	3/17/1987	Dahlberg et al.			
		4738265	4/19/1988	Ritchart et al.			
		4739492	4/19/1988	Cochran			
		4740755	4/26/1988	Ogawa			
		4825168	4/25/1989	Ogawa et al.			
		4885087	12/5/1989	Kopf			
		4898669	2/6/1990	Tesio			
↓		4,923,598	5/8/90	Schal			
LD		4995268	2/26/1991	Ash et al.			

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LD		5004459	4/2/1991	Peabody et al.			
		5024756	6/18/1991	Sternby			
		5058416	10/22/1991	Engelhardt et al.			
		5092836	3/3/1992	Polaschegg			
		5098373	3/24/1992	Polaschegg			
		5312550	5/17/1994	Hester			
		5372136	12/13/1994	Steuer et al.			
		5442969	8/22/1995	Troutner et al.			
		5443453	8/22/95	Walker et al			
		5453576	9/26/1995	Krivitski			
		5507723	4/16/1996	Keshaviah			
		5510716	4/23/1996	Buffaloe IV et al			
		5510717	4/23/1996	Buffaloe IV et al			
		5518623	5/21/1996	Keshaviah et al			
		5588959	12/31/1996	Ahmad et al.			
		5595182	6/21/1997	Krivitski			
		5605630	2/25/1997	Shibaia			
		5662806	9/2/1997	Keshaviah et al			
		5685989	11/11/1997	Krivitski et al.			
		5830365	11/3/1998	Schneditz			
		5866015	2/2/1999	Krämer			
		5894011	4/13/1999	Prosl et al.			
		5902336	5/11/99	Mishkin			
		6098576	8/8/2000	Nowak Jr. et al.			
↓		6117099	09/12/2000	Steuer et al.			
		6126831	10/3/00	Goldau et al			
LD		6153109	11/28/2000	Krivitski			

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LD	6156002	12/00	Polascheegg et al			
LD	6158965	12/12/00	Butterfield et al			
LD	6177049	1/01	Schnell et al			
LD	6189388	2/01	Cole et al			
LD	6210591	4/3/01	Krivitski			
LD	6221040	4/24/01	Kleinckofort			
LD	6258027	7/01	Sternby			
LD	6273133	8/14/2001	Williamson et al			
LD	6308737	10/30/2001	Krivitski			
LD	6418966	7/16/02	Loo			

FOREIGN OR PUBLISHED FOREIGN PATENT APPLICATIONS

	DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
LD	EP 0097366	1/4/1984	EP			Abstract	
LD	EP 0272414	6/29/1988	EP			✓	
LD	EP 0693296	1/24/1996	EP			✓	
LD	EP 0773035	5/14/1997	EP			Abstract	
LD	EP 0773035	11/12/1997	EP			Abstract	
LD	EP 0845273	6/3/1998	EP			Abstract	
LD	EP 0928614	7/4/99	EP				
LD	EP 0928614	7/14/1999	EP			✓	
LD	EP 0943369	9/22/99	EP				
LD	EP 0995451	4/26/00	EP				
LD	FR 2804609	2/8/00	FR			Abstract only	
LD	GB 2093192	8/25/1982	UK			✓	
LD	JP 190873/85	1985	JP			✓	
LD	JP 36990/77	1977	JP			✓	

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							YES No
LD		SP 2026508	5/1/1992	Spain			✓
LD		USSR 1013853	4/23/1983	U.S.S.R.			✓
LD		USSR 521891	10/6/1976	U.S.S.R. (cover page)			✓
LD		WO 00/18451	4/6/00	PCT			
LD		WO 00/24440	5/4/00	PCT			
LD		WO 01/45770	6/28/01	PCT			
LD		WO 9608305	3/21/1996	PCT			✓
LD		WO 97/10013	3/20/1997	PCT			✓
LD		WO 98/17193	4/30/1998	PCT			Abstract
LD		WO 98/17334	4/30/1998	PCT			Abstract
LD		WO 98/32477	7/30/1998	PCT			Abstract
LD		WO 99/64088	12/16/99	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
I.D.	International Search Report for PCT/SE 99/01915
LD	Aldridge et al., "The Assessment of Arteriovenous Fistulae Created for Hemodialysis from Pressure and Thermal Dilution Measurements, <i>J. Medical Engineering & Technology</i> , " Vol. 8, No. 3, pp. 118-124, May/June 1984..
LD	Aldridge, C., "The Use and Management of Arteriovenous Fistulae Fact and Fiction," <i>EDTNA ERCA</i> , Journal SVII-4, pp. 29-35, October 1991.
LD	Aldridge, et al., "Instrument Design for the Bedside Assessment of Arteriovenous Fistulae in Hemodialysis Patients, " <i>Proceedings EDTNA-ERCA</i> , vol. 14, pp. 255-260, 1985, U.K.
LD	Bower et al, "Circulatory Function During Chronic Hemodialysis", Vol. XV <i>Trans. Amer. Soc. Artif. Int. Organs</i> , 1969, pp. 373-377
LD	Carr, J.C., "Integration of Decaying Exponential Sensor Output Signals", <i>Sensors</i> , pp. 28-34, 7/89.
LD	Daugirdas, J., "The Fourth Annual Advanced Dialysis Technical Symposium", <i>Dialysis & Transplantation</i> , Vol. 17, No. 8, pp. 432-433, August 1988.
LD	Depner et al, "Access Flow Measured from Recirculation of Urea during Hemodialysis with Reversed Blood Lines", <i>J. Am Soc Nephrol</i> , vol. 6, 1995, p. 486.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
LD			
	Depner et al, "Clinical Measurement of Blood Flow in Hemodialysis Access Fistulae and Grafts by Ultrasound Dilution", <i>ASAIO Journal 1995 Abstracts</i> , Supplement to January-March 1995 Volume 41, No. 1, page 80		
	Depner et al, "Clinical Measurement of Blood Flow in Hemodialysis Access Fistulae and Grafts by Ultrasound Dilution," July 27, 1995, <i>ASAIO Journal</i> , pages 0018-0022		
	Depner et al., "Hemodialysis Access Recirculation (RC) Measured by Ultrasound Dilution", <i>ASAIO Journal 1995 Abstracts</i> , Supplement to January-March 1995 Volume 41, No. 1, p. 80.		
	Depner et al., "Hemodialysis Access Recirculation Measured by Ultrasound Dilution", July 27, 1995, <i>ASAIO Journal</i> , pages 0022-0026		
	Depner, T. "Changes in Access Blood Flow(Qac) and Appearance of Recirculation (RC) During Hemodialysis", <i>XIIIth International Congress of Nephrology, Abstract.</i> , 1995		
	Forsberg, et al, "Quantitative Doppler And Ultrasound Measurements In Surgically Performed Arteriovenous Fistulas Of The Arm," <i>Acta Radiologica Diagnosis</i> 21 (1980) Fasc, 769-771.		
	Fresenius, "BTM 4008", November 1993, Germany and translation from German to English		
	Gambro, "FAM 10 Fistula Flow Studies and Their Interpretation", pp.1-31, Lund Sweden, published on or before September 29, 1991.		
	Gambro, "Fistula Assessment Monitor FAM10 Operator's Manual," approximately 1985, U.K.		
	Gambro, "Fistula Assessment Monitor FAM10 Service Manual," approximately 1985, U.K.		
	Gambro, "Fistula Assessment Monitor FAM10," approximately 1985, U.K.		
	Gani et al, "Use of the Fistula Assessment Monitor to Detect Stenoses in Access Fistulae," (abstract) <i>Australian Society of Nephrology</i> , 1989, Australia		
	Gani, J.S., "Use of the fistula Assessment Monitor to Detect Stenoses in Access Fistulae," <i>Am. J Kidney Diseases</i> , Vol. XVII, No. 3, pp. 303-306, March 1991, Newcastle, Australia		
	Goldstein et al., "The Assessment of Arteriovenous Fistulae From Pressure and Recirculation Studies:, <i>Proc EDTNA-ERCA</i> , Vol. 14, pp. 207-215, 1985, United Kingdom		
	Greenwood et al, "Single Needle Dialysis," <i>Journal of Medical Engineering & Technology</i> , Volume 6, Number 3 (May/June 1982), pages 93-98.		
	Greenwood et al. "Assessment of Arteriovenous Fistulae From Pressure and Recirculation Studies. <i>Clinical Experience in 186 Fistulae</i> ", Abstract, pg. 106, 1985.		
	Greenwood et al., "Assessment of Arteriovenous Fistulas From Pressure and Recirculation Studies: Clinical Experience in 215 Upper Limb Fistulas, <i>EDTA-ERA</i> ", vol. 22, pp. 296-302, 1985.		
	Greenwood et al., "Assessment of Arteriovenous Fistulae from Pressure and Thermal Dilution Studies: Clinical Experience in Forearm Fistulae," <i>Clin. Nephrology</i> , vol. 23, no. 4, pp. 189-197, 1985.		
	Hart et al., "A Noninvasive Electromagnetic Conductivity Sensor for Biomedical Applications:, <i>IEEE Transactions on Biomedical Engineering</i> . Vol. 35, No. 12, pp. 1011-1022, December 1988.		
↓	Hester et al., "Non-Invasive Determination of Recirculation in the Patient on Dialysis," <i>ASAIO Journal</i> , pp. M190-M193, 1992.		
LD	Hester et al., "Non-Invasive Measurement of Recirculation in Dialysis Patient," Abstract No. 7, 7/92.		

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LD			
		Hester et al., "The Determination of Hemodialysis Blood Recirculation Using Blood Urea Nitrogen Measurements" <i>Am. J. of Kidney Diseases</i> , Vol. XX, no. 6, pp. 598-602, 12/92.	
		Hester, R., "A New Technique for Determining Recirculation in the ESRD Patient", <i>Nephrology News & Issues</i> , pp. 44-55, June 1993.	
		In-Line Diagnostics (brochure) "Improve the Clinical Outcome of Every Patient!", four pages, (undated)	
		In-Line Diagnostics (brochure) "Non-Invasive Blood Volume Monitoring", two pages, 1994	
		In-Line Diagnostics (brochure) "The Crit-Line System", two pages, (undated)	
		Konner et al, "Transvenous Serial Xero-Arteriography: A New Non-Invasive Angiographic Method for AV-Fistulas in Haemodialysis Patients," <i>Proc EDTA</i> (1981) Vol. 18, pages 303-309.	
		Kramet et al., "A Device for Control of Thermal Parameters and Recirculation Measurement in Hemodialysis," November, 1992, Germany	
		Kramer et al., "Automated Measurement of Recirculation," <i>EDTNA-ERCA</i> , J.I, Vol. XIX, No. 2, 4/93.	
		Krivitski et al., "Accuracy of Dilution Techniques for Access Flow Measurement During Hemodialysis," <i>Am. J. of Kidney Diseases</i> , Vol. 31, 3 (March) 1998: pp. 502-508.	
		Krivitski et al., "Development of a Method for Measuring Hemodialysis Access Flow: From Idea to Robust Technology," <i>Seminars In Dialysis</i> Vol. 11, 2 (March-April) 1998: pp. 124-230.	
		Krivitski N.M "Accuracy of Ultrasound Dilution Method to Measure Access Flow (AF) in Hemodialysis", <i>XII/th International Congress of Nephrology</i> , Abstract, 1995	
		Krivitski N.M "Cardiac Output Measurement in Extracorporeal Systems by Ultrasound Velocity Dilution," <i>ASAIO Abstracts</i> , 1994, page 82	
		Krivitski N.M, "Novel Method to Measure Access Flow During Hemodialysis by Ultrasound Dilution(UD)", <i>ASAIO Journal</i> 1995	
		Krivitski N.M, "Novel Method to Measure Access Flow during Hemodialysis by Ultrasound Velocity Dilution Technique", July 27, 1995, <i>ASAIO Journal</i> , pages 0014-0018	
		Krivitski N.M. "New Method to Measure Recirculation (RC) and Access Flow During Hemodialysis (HD)" <i>Am. Nephrology Nurses' Assoc. 26th Na'l Symposium Exhibitor Cont. Ed. Program</i> , Abstract 1995.	
		Krivitski N.M., "Theory and Validation of Access Flow Measurement by Dilution Technique During Hemodialysis", <i>Kidney International</i> , Vol. 48 (1985), pages 244-250.	
		Lindsay, et al, "Monitoring Vascular Access Flow", <i>Advances in Renal Replacement Therapy</i> , vol. 6, no. 3, 1999, pp. 273-277.	
↓		Lindsay, et al, "The Estimation of Hemodialysis Access Blood Flow Rates by a urea Method is a Poor Predictor of Access Outcome", <i>ASAIO</i> , vol. 44, 1998, pp. 818-822.	
		Man et al, "Clinical Validation of a Predictive Modeling Equation for Sodium", <i>Artificial Organs</i> , vol. 9, no. 2, 1985, pp 150-154.	
LD		Noshier, J.L., "Death Taxes, and Vascular Access Dysfunction, <i>Seminars in Dialysis</i> ," Vol. 4, No. 2, pp. 67-68, April-June 1991.	

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LD	Salamon et al. "Translation: low frequency electrodeless conductometer for measuring the electrical conductivity of solutions, 1959, Industrial Group Headquarters, U.K.	
LD	Sands et al., "The Effect of Doppler Flow Screening Studies and Elective Revisions on Dialysis Access Failure", Reprint from ASAIO Transactions, July-September, 1992, pages M524-M527	
LD	Sherman, R.A. "Recirculation Revisited", <i>Seminars in Dialysis</i> , Vol. 4, No. 4 pp. 221-223, Oct-Dec 1991.	
LD	Smith, McK., "Cardiac Output Determined by the Saline Conductivity Method Using an Extraarterial Conductivity Cell", <i>Cardiovascular Research Center Bulletin</i> , Vol. 5, No. 4, pp. 123-134, April - June 1967.	
LD	Sternby, J., "Urea sensors - A World of Possibilities", <i>Advances in Renal Replacement therapy</i> vol. 6, no. 3, 1999, pp. 265-272.	
LD	Thomsen et al., "Evaluation of Clinical Examination Preceding Surgical Treatment of AV-Fistula Problems," <i>Acta Chir Scand</i> , Vol. 151, pp. 133-137, 1985, Sweden.	
LD	Transonic Systems, Inc., "Recirculation, Access Flow Measurements," 1995, pages 19-26	
LD	Transonic Systems, Inc., "Transonic Hemodialysis Monitor Measures Access Flow Recirculation Cardiac Output Routinely during Dialysis," April 1995	
LD	Transonic Systems, Inc., Access Flow & Recirculation Measured During Hemodialysis, October 1994.	
LD	Yasar, et al, "Ultrafiltration Method for Measuring Vascular Access Flow Rates during Hemodialysis", <i>Kidney International</i> , vol. 56, no. 3, 1999, pp. 1129-1135.	

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